

**A. CLASSIFICATION OF SUBJECT MATTER**  
**IPC 7 H01L23/31**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

**IPC 7 H01L**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 154 473 A (SANYO ELECTRIC CO) 14 November 2001 (2001-11-14) the whole document -----	1,3,7,8
Y	EP 1 187 205 A (SANYO ELECTRIC CO) 13 March 2002 (2002-03-13) the whole document -----	1,3,7,8
A	EP 1 182 703 A (CASIO COMP CO LTD ; INTEGRATED ELECTRONICS & PACKA (JP)) 27 February 2002 (2002-02-27) the whole document -----	7
A	PATENT ABSTRACTS OF JAPAN Vol. 1999, no. 11, 30 September 1999 (1999-09-30) & JP 11 163024 A (SUMITOMO METAL MINING CO LTD), 18 June 1999 (1999-06-18) the whole document -/-	1,7

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the International search

22 July 2003

Date of mailing of the International search report

29/07/2003

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## INTERNATIONAL SEARCH REPORT

Intern Application No  
PCT/IB 03/01302

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	-& JP 11 163024 A (SUMITOMO METAL MINING CO LTD) 18 June 1999 (1999-06-18) ----- EP 1 143 509 A (SANYO ELECTRIC CO) 10 October 2001 (2001-10-10) the whole document -----	1,7

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